

405MABA02KJS Datasheet

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DiGi Electronics Part Number	405MABA02KJS-DG
Manufacturer	Cornell Dubilier / Illinois Capacitor
Manufacturer Product Number	405MABA02KJS
Description	CAP FILM 4UF 10% 600VDC RADIAL
Detailed Description	4 μ F Film Capacitor 320V 600V Polypropylene (PP), Metallized Radial

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Purchase and inquiry

Manufacturer Product Number:

405MABA02KJS

Series:

MAB

Capacitance:

4 μ F

Voltage Rating - AC:

320V

Dielectric Material:

Polypropylene (PP), Metallized

Mounting Type:

Through Hole

Size / Dimension:

1.673" L x 0.669" W (42.50mm x 17.00mm)

Termination:

PC Pins

Applications:

Motor Run

Features:

-

Manufacturer:

Cornell Dubilier / Illinois Capacitor

Product Status:

Obsolete

Tolerance:

\pm 10%

Voltage Rating - DC:

600V

Operating Temperature:

-40°C ~ 100°C

Package / Case:

Radial

Height - Seated (Max):

1.102" (28.00mm)

Lead Spacing:

1.476" (37.50mm)

Ratings:

-

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.25.0070

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

MAB**AC/Motor Run Film Capacitors****FEATURES**

Small Size - Good dvdt - EN60252-1 rated

APPLICATIONSAC Application - Motor Run - AC/DC Motor Controls -
Switching Power Supplies

Operating Temperature Range		-40°C to +100°C without approvals -25°C to +85°C with approvals					
Capacitance Tolerance		±10% at 1 kHz, 25°C ±5% optional					
Peak, AC voltage (50/60 Hz)	Code	A04	A03	A02	A01	A05	
	WVDC	370	500	600	800	1200	
	SVDC	470	625	750	1050	1500	
	VAC	160/200	250/320	320/400/430	400/432/500	500/600	
Dissipation Factor (MAX) Tan δ at 1 kHz and 25°C		C<2.2uF	2.2<C<15uF	15<C<22uF	C>22uF		
		.06%	.1%	.12%	.15%		
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied		10000 MΩ, C<1uF 3000 MΩxuF, C≥1uF					
Self Inductance		<1 nano-Henry per mm of lead spacing					
Dielectric Strength		Terminal to Terminal			Terminal to Case		
		160% of VAC for 60 Seconds and 25°C or 200% VAC applied for 60 Seconds and 25°C for EN 60252-1 approval			3kVAC (50/60 Hz) applied for 60 Seconds and 25°C		
Damp Heat		56 days with no voltage applied at +40C and 93%(+2%) relative humidity					
		Capacitance Change			<+2% of initially measured value		
		Dissipation Factor			≤.001 at 1 kHz for C>0.1uF		
		Insulation Resistance			>50% of minimum specified value		
Reliability	WVDC	Class A	Class B	Class C	Class D		
	Hours	30000	10000	3000	1000		
	test	6000	2000	600	200		
Failure quota		500/10 ⁹ component hours					
Construction		metallized film					
Coating		Flame Retardant Plastic box with epoxy end fill(UL94V0)					
Lead terminations		Lead free tinned copper leads					



AC/Motor Run Film Capacitors



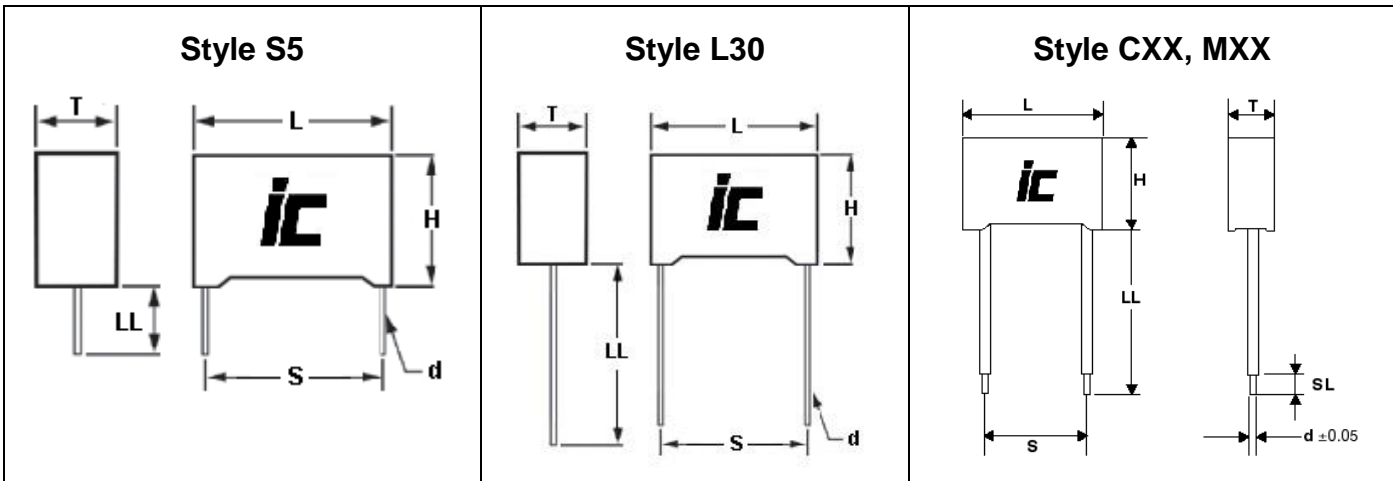
Voltage code	WVDC/ SVDC	VAC	Agency standard	Description	Certification Approval
A04	350/ 425	160 200	UL 810 CSA 22.2	Construction only (E192977) 190-M-1985 30000 hrs. Continuous Service 3000 hrs. Continuous Service	Class A Class C
A03	500/ 625	275 320	UL 810 CSA 22.2	Construction only (E192977) 190-M-1985 30000 hrs. Continuous Service 10000 hrs. Continuous Service 3000 hrs. Continuous Service	Class A Class B Class C
A02	600/ 750	320 400 430	UL 810 CSA 22.2 EN60252-1 EN60252-1 EN60252-1	Construction only (E192977) 190-M-1985 30000 hrs. Continuous Service 10000 hrs. Continuous Service 1000 hrs. Continuous Service	Class A Class B Class D
A01	800/ 1050	400 430 500	UL 810 CSA 22.2 EN60252-1 EN60252-1 EN60252-1	Construction only (E192977) 190-M-1985 30000 hrs. Continuous Service 10000 hrs. Continuous Service 3000 hrs. Continuous Service	Class A Class B Class C
A05	1200/ 1500	500 600	UL 810 CSA 22.2	Construction only (E192977) 190-M-1985 10000 hrs. Continuous Service 3000 hrs. Continuous Service	Class B Class C

Terminal Style Selection

Lead Spacing

S5	5mm+/-1mm	Solid tinned copper wire
L30	30mm+/-5mm	Solid tinned copper wire
CXX	Customer specified	Insulated Solid tinned copper wire (50-200mm Lead length)
MXX	Customer specified	Insulated Stranded tinned copper wire (50-200mm Lead length)

L	26.5	32	39.5	42.5
S	22.5	27.5	35	37.5
d	0.8	0.8	0.8	1.0



MAB

AC/Motor Run Film Capacitors



MAB

Motor Run

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
370	1	105MABA04KG#	50	26.5x16x7	22.5	0.8
370	1.2	125MABA04KG#	50	26.5x17x8.5	22.5	0.8
370	1.5	155MABA04KG#	50	26.5x17x8.5	22.5	0.8
370	1.8	185MABA04KG#	50	26.5x18.5x10	22.5	0.8
370	1.8	185MABA04KH#	40	32x17x9	27.5	0.8
370	2	205MABA04KG#	50	26.5x20x11	22.5	0.8
370	2	205MABA04KH#	40	32x17x9	27.5	0.8
370	2.2	225MABA04KG#	50	26.5x20x11	22.5	0.8
370	2.2	225MABA04KH#	40	32x20x11	27.5	0.8
370	2.5	255MABA04KG#	50	26.5x22x13	22.5	0.8
370	2.5	255MABA04KH#	40	32x20x11	27.5	0.8
370	2.7	275MABA04KG#	50	26.5x22x13	22.5	0.8
370	2.7	275MABA04KH#	40	32x20x11	27.5	0.8
370	3	305MABA04KH#	40	32x22x13	27.5	0.8
370	3.3	335MABA04KH#	40	32x22x13	27.5	0.8
370	3.5	355MABA04KH#	40	32x22x13	27.5	0.8
370	4	405MABA04KH#	40	32x22x13	27.5	0.8
370	4.5	455MABA04KH#	40	32x24.5x15	27.5	0.8
370	4.7	475MABA04KH#	40	32x28x14	27.5	0.8
370	5	505MABA04KH#	40	32x28x14	27.5	0.8
370	6	605MABA04KH#	40	32x33x18	27.5	0.8
370	6	605MABA04KI#	30	39.5x26x15	35	0.8
370	6.8	685MABA04KH#	40	32x33x18	27.5	0.8
370	6.8	685MABA04KI#	30	39.5x26x15	35	0.8
370	6.8	685MABA04KJ#	25	42.5x28x17	37.5	1
370	7	705MABA04KH#	40	32x33x18	27.5	0.8
370	7	705MABA04KI#	30	39.5x26x15	35	0.8
370	7	705MABA04KJ#	25	42.5x28x17	37.5	1
370	8	805MABA04KH#	40	32x33x18	27.5	0.8
370	8	805MABA04KJ#	25	42.5x28x17	37.5	1
370	10	106MABA04KJ#	25	42.5x28x17	37.5	1
370	12	126MABA04KJ#	25	42.5x30x22	37.5	1
370	15	156MABA04KJ#	25	42.5x30x22	37.5	1
370	18	186MABA04KJ#	25	42.5x37x28	37.5	1
370	20	206MABA04KJ#	25	42.5x37x28	37.5	1
370	22	226MABA04KJ#	25	42.5x37x28	37.5	1
370	25	256MABA04KJ#	25	42.5x37x28	37.5	1
370	27	276MABA04KJ#	25	42.5x45x30	37.5	1
370	30	306MABA04KJ#	25	42.5x45x30	37.5	1
370	33	336MABA04KJ#	25	42.5x45x30	37.5	1
500	0.68	684MABA03KG#	60	26.5x16x7	22.5	0.8
500	0.75	754MABA03KG#	60	26.5x17x8.5	22.5	0.8
500	0.82	824MABA03KG#	60	26.5x17x8.5	22.5	0.8
500	1	105MABA03KG#	60	26.5x18.5x10	22.5	0.8
500	1.2	125MABA03KG#	60	26.5x20x11	22.5	0.8
500	1.2	125MABA03KH#	50	32x17x9	27.5	0.8
500	1.5	155MABA03KG#	60	26.5x22x13	22.5	0.8
500	1.5	155MABA03KH#	50	32x22x11	27.5	0.8
500	1.8	185MABA03KH#	50	32x22x11	27.5	0.8
500	2	205MABA03KH#	50	32x22x13	27.5	0.8
500	2.2	225MABA03KH#	50	32x22x13	27.5	0.8
500	2.5	255MABA03KH#	50	32x22x13	27.5	0.8
500	2.7	275MABA03KH#	50	32x22x13	27.5	0.8
500	3	305MABA03KH#	50	32x24.5x15	27.5	0.8
500	3.15	315MABA03KH#	50	32x24.5x15	27.5	0.8
500	3.15	315MABA03KI#	40	39.5x26x15	35	0.8
500	3.3	335MABA03KH#	50	32x24.5x15	27.5	0.8
500	3.3	335MABA03KI#	40	39.5x26x15	35	0.8

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
500	3.5	355MABA03KH#	50	32x24.5x15	27.5	0.8
500	3.5	355MABA03KI#	40	39.5x26x15	35	0.8
500	4	405MABA03KH#	50	32x33x18	27.5	0.8
500	4	405MABA03KI#	40	39.5x26x15	35	0.8
500	4.5	455MABA03KH#	50	32x33x18	27.5	0.8
500	4.5	455MABA03KJ#	35	42.5x28x17	37.5	1
500	4.7	475MABA03KH#	50	32x33x18	27.5	0.8
500	4.7	475MABA03KJ#	35	42.5x28x17	37.5	1
500	5	505MABA03KH#	50	32x33x18	27.5	0.8
500	5	505MABA03KJ#	35	42.5x28x17	37.5	1
500	6	605MABA03KJ#	35	42.5x28x17	37.5	1
500	6.5	655MABA03KJ#	35	42.5x28x17	37.5	1
500	8	805MABA03KJ#	35	42.5x30x22	37.5	1
500	10	106MABA03KJ#	35	42.5x30x22	37.5	1
500	12	126MABA03KJ#	35	42.5x37x28	37.5	1
500	15	156MABA03KJ#	35	42.5x37x28	37.5	1
500	18	186MABA03KJ#	35	42.5x45x30	37.5	1
500	20	206MABA03KJ#	35	42.5x45x30	37.5	1
500	22	226MABA03KJ#	35	42.5x45x30	37.5	1
600	0.33	334MABA02KG#	90	26.5x16x7	22.5	0.8
600	0.39	394MABA02KG#	90	26.5x16x7	22.5	0.8
600	0.47	474MABA02KG#	90	26.5x17x8.5	22.5	0.8
600	0.56	564MABA02KG#	90	26.5x17x8.5	22.5	0.8
600	0.68	684MABA02KG#	90	26.5x18.5x10	22.5	0.8
600	0.68	684MABA02KH#	70	32x20x11	27.5	0.8
600	0.82	824MABA02KH#	70	32x20x11	27.5	0.8
600	0.82	824MABA02KJ#	70	32x20x11	27.5	0.8
600	1	105MABA02KH#	70	32x20x11	27.5	0.8
600	1	105MABA02KJ#	70	32x20x11	27.5	0.8
600	1.2	125MABA02KH#	70	32x20x11	27.5	0.8
600	1.5	155MABA02KH#	70	32x22x13	27.5	0.8
600	1.8	185MABA02KH#	70	32x28x14	27.5	0.8
600	2	205MABA02KH#	70	32x28x14	27.5	0.8
600	2	205MABA02KI#	50	39.5x26x15	35	0.8
600	2.2	225MABA02KH#	70	32x28x14	27.5	0.8
600	2.2	225MABA02KJ#	50	39.5x26x15	35	0.8
600	2.5	255MABA02KH#	70	32x28x14	27.5	0.8
600	2.5	255MABA02KI#	50	39.5x26x15	35	0.8
600	2.7	275MABA02KH#	70	32x28x14	27.5	0.8
600	2.7	275MABA02KI#	50	39.5x26x15	35	0.8
600	3	305MABA02KH#	70	32x33x18	27.5	0.8
600	3	305MABA02KI#	50	39.5x26x15	35	0.8
600	3	305MABA02KJ#	50	42.5x28x17	37.5	1
600	3.3	335MABA02KH#	70	32x33x18	27.5	0.8
600	3.3	335MABA02KI#	50	39.5x26x15	35	0.8
600	3.3	335MABA02KJ#	50	42.5x28x17	37.5	1
600	3.5	355MABA02KH#	70	32x33x18	27.5	0.8
600	3.5	355MABA02KJ#	50	42.5x28x17	37.5	1
600	4	405MABA02KH#	70	32x33x18	27.5	0.8
600	4	405MABA02KJ#	50	42.5x28x17	37.5	1
600	4.5	455MABA02KJ#	50	42.5x30x22	37.5	1
600	4.7	475MABA02KJ#	50	42.5x30x22	37.5	1
600	5	505MABA02KJ#	50	42.5x30x22	37.5	1
600	6	605MABA02KJ#	50	42.5x30x22	37.5	1
600	6.3	635MABA02KJ#	50	42.5x30x22	37.5	1
600	6.8	685MABA02KJ#	50	42.5x33.5x22	37.5	1
600	8	805MABA02KJ#	50	42.5x33.5x22	37.5	1
600	10	106MABA02KJ#	50	42.5x37x28	37.5	1

MAB**Motor Run**

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
600	11	116MABA02KJ#	50	42.5x45x30	37.5	1
600	12	126MABA02KJ#	50	42.5x45x30	37.5	1
600	13	136MABA02KJ#	50	42.5x45x30	37.5	1
600	14	146MABA02KJ#	50	42.5x45x30	37.5	1
600	15	156MABA02KJ#	50	42.5x45x30	37.5	1
800	0.1	104MABA01KG#	120	26.5x16x7	22.5	0.8
800	0.12	124MABA01KG#	120	26.5x16x7	22.5	0.8
800	0.15	154MABA01KG#	120	26.5x17x8.5	22.5	0.8
800	0.22	224MABA01KG#	120	26.5x18.5x10	22.5	0.8
800	0.22	224MABA01KH#	100	32x20x11	27.5	0.8
800	0.27	274MABA01KG#	120	26.5x18.5x10	22.5	0.8
800	0.33	334MABA01KG#	120	26.5x18.5x10	22.5	0.8
800	0.33	334MABA01KH#	100	32x20x11	27.5	0.8
800	0.39	394MABA01KG#	120	26.5x18.5x10	22.5	0.8
800	0.39	394MABA01KH#	100	32x20x11	27.5	0.8
800	0.47	474MABA01KG#	120	26.5x20x11	22.5	0.8
800	0.47	474MABA01KH#	100	32x20x11	27.5	0.8
800	0.56	564MABA01KH#	100	32x20x11	27.5	0.8
800	0.56	564MABA01KH#	100	32x20x11	27.5	0.8
800	0.62	624MABA01KG#	120	26.5x22x13	22.5	0.8
800	0.62	624MABA01KH#	100	32x20x11	27.5	0.8
800	0.62	624MABA01KI#	70	39.5x26x15	35	0.8
800	0.68	684MABA01KI#	70	39.5x26x15	27.5	0.8
800	0.68	684MABA01KH#	100	32x20x11	27.5	0.8
800	0.68	684MABA01KI#	70	39.5x26x15	35	0.8
800	0.75	754MABA01KH#	100	32x22x13	27.5	0.8
800	0.75	754MABA01KI#	70	39.5x26x15	35	0.8
800	0.82	824MABA01KH#	100	32x22x13	27.5	0.8
800	0.82	824MABA01KI#	70	39.5x26x15	35	0.8
800	1	105MABA01KH#	100	32x24.5x15	27.5	0.8
800	1	105MABA01KI#	70	39.5x26x15	35	0.8
800	1.2	125MABA01KH#	100	32x24.5x15	27.5	0.8
800	1.2	125MABA01KI#	70	39.5x26x15	35	0.8
800	1.5	155MABA01KH#	100	32x33x18	27.5	0.8
800	1.5	155MABA01KI#	70	39.5x26x15	35	0.8
800	1.8	185MABA01KH#	70	32x33x18	27.5	0.8
800	1.8	185MABA01KJ#	65	42.5x28x17	37.5	1
800	2	205MABA01KH#	65	32x33x18	27.5	0.8
800	2	205MABA01KJ#	65	42.5x28x17	37.5	1
800	2.2	225MABA01KH#	65	32x33x18	27.5	0.8
800	2.2	225MABA01KJ#	65	42.5x28x17	37.5	1

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
800	2.5	255MABA01KJ#	65	42.5x28x17	37.5	1
800	2.7	275MABA01KJ#	65	42.5x30x22	37.5	1
800	3	305MABA01KJ#	65	42.5x30x22	37.5	1
800	3.3	335MABA01KJ#	65	42.5x30x22	37.5	1
800	3.5	355MABA01KJ#	65	42.5x33.5x22	37.5	1
800	4	405MABA01KJ#	65	42.5x33.5x22	37.5	1
800	4.5	455MABA01KJ#	65	42.5x33.5x22	37.5	1
800	4.7	475MABA01KJ#	65	42.5x37x28	37.5	1
800	5	505MABA01KJ#	65	42.5x37x28	37.5	1
800	5.5	555MABA01KJ#	65	42.5x37x28	37.5	1
800	6	605MABA01KJ#	65	42.5x37x28	37.5	1
800	6.3	635MABA01KJ#	65	42.5x37x28	37.5	1
800	7	705MABA01KJ#	65	42.5x45x30	37.5	1
800	8	805MABA01KJ#	65	42.5x45x30	37.5	1
800	8.5	855MABA01KJ#	65	42.5x45x30	37.5	1
1200	0.1	104MABA05KG#	175	26.5x16x7	22.5	0.8
1200	0.12	124MABA05KG#	175	26.5x17x8.5	22.5	0.8
1200	0.15	154MABA05KG#	175	26.5x17x8.5	22.5	0.8
1200	0.18	184MABA05KG#	175	26.5x18.5x10	22.5	0.8
1200	0.22	224MABA05KG#	175	26.5x20x11	22.5	0.8
1200	0.22	224MABA05KH#	145	32x20x11	27.5	0.8
1200	0.27	274MABA05KG#	175	26.5x22x13	22.5	0.8
1200	0.27	274MABA05KH#	145	32x20x11	27.5	0.8
1200	0.33	334MABA05KH#	145	32x22x13	27.5	0.8
1200	0.39	394MABA05KH#	145	32x22x13	27.5	0.8
1200	0.47	474MABA05KH#	145	32x28x14	27.5	0.8
1200	0.56	564MABA05KH#	145	32x28x14	27.5	0.8
1200	0.68	684MABA05KH#	145	32x33x18	27.5	0.8
1200	0.75	754MABA05KH#	145	32x33x18	27.5	0.8
1200	0.82	824MABA05KH#	145	32x33x18	27.5	0.8
1200	1	105MABA05KJ#	90	42.5x28x17	37.5	0.8
1200	1.2	125MABA05KJ#	90	42.5x30x22	37.5	1
1200	1.5	155MABA05KJ#	90	42.5x30x22	37.5	1
1200	1.8	185MABA05KJ#	90	42.5x37x28	37.5	1
1200	2	205MABA05KJ#	90	42.5x37x28	37.5	1
1200	2.2	225MABA05KJ#	90	42.5x37x28	37.5	1
1200	2.5	255MABA05KJ#	90	42.5x37x28	37.5	1
1200	2.7	275MABA05KJ#	90	42.5x45x30	37.5	1
1200	3	305MABA05KJ#	90	42.5x45x30	37.5	1
1200	3.3	335MABA05KJ#	90	42.5x45x30	37.5	1
1200	3.5	355MABA05KJ#	90	42.5x45x30	37.5	1

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